

MICROPHONE / KEYPAD MICROPHONE  
**KMC-35/36**  
 SERVICE MANUAL

**KENWOOD**

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**KMC-35**



**KMC-36**



**PARTS LIST**

**KMC-35 (Y58-3740-20), KMC-36 (Y58-3750-20)**

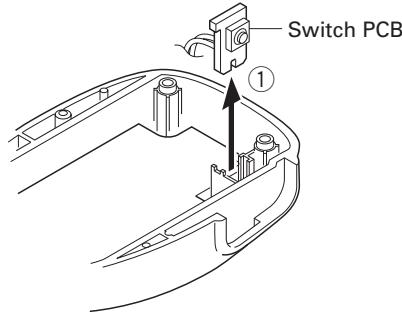
\* : New parts

Ref. No.	New parts	Parts No.	Description	Destination
1	*	E30-7531-08	CURL CABLE	
2		E58-0475-05	MODULAR JACK	
3	*	G01-4546-08	COIL SPRING (PTT)	
4	*	G53-1646-08	PACKING	
5	*	J19-5479-08	MIC HOLDER	
6	*	J19-5482-05	MIC HANGER (ACCESSORY)	
7	*	K29-9333-08	LEVER KNOB (PTT)	
8	*	K29-9334-08	KNOB (PTT)	
9	*	K29-9335-08	KEY TOP	KMC-36
A		N52-3012-60	PAN HEAD TAPPING SCREW	
10	*	S70-0499-08	TACT SWITCH	
11		T91-0538-05	MIC ELEMENT	

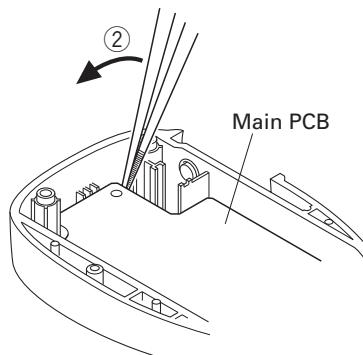
## DISASSEMBLY FOR REPAIR

### ■ Main PCB removal

1. Remove the four screws, the rear case and all-round packing.
2. Lift the switch PCB and remove it from the front case. (①)

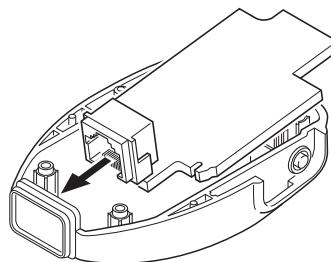


3. Lift the upper part of the Main PCB using a pair of tweezers (②) and remove the Main PCB.

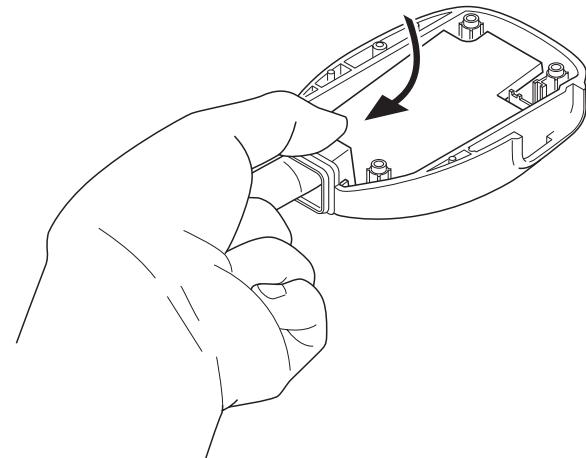


### ■ Main PCB installation procedure

1. Install the microphone holder, spacer and keytop (KMC-36 only) on the front case.
2. Tilt the Main PCB and fit the modular connector into the front case first.

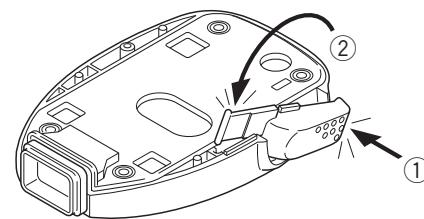


3. Hold the modular connector with your fingers and move it in the direction indicated by the arrow to install the Main PCB onto the front case.



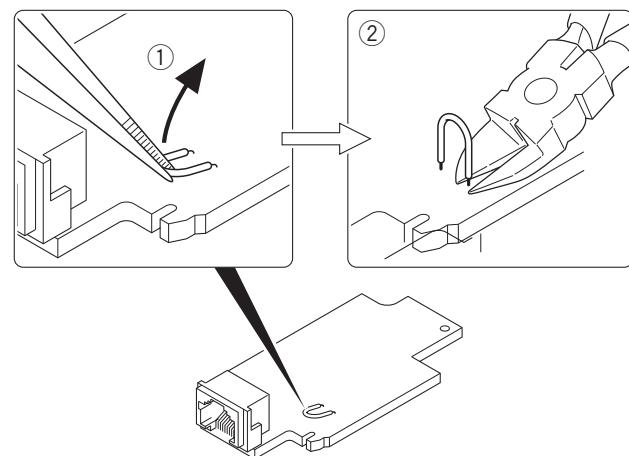
### ■ PTT knob installation procedure

1. Place the PTT knob in the front case diagonally as shown in the figure.
2. Hold down the upper part of the PTT knob (①) and push the PTT knob shaft down (②) to install the PTT knob onto the front case.



### ■ Hot microphone modification procedure

1. Lift the jumper with a pair of tweezers or similar tool. (①) **Note :** The jumper is bonded to the board, but not strongly fixed, so it can be detached by applying light force.
2. Cut the base of the jumper into two parts with a pair of nippers or similar tool. (②)



## CIRCUIT DESCRIPTION

## Hot Microphone Function

In the Hot microphone state, only microphones whose PTT switch is pressed can send modulation signals in the environment in which several microphones are connected to the transceiver in parallel.

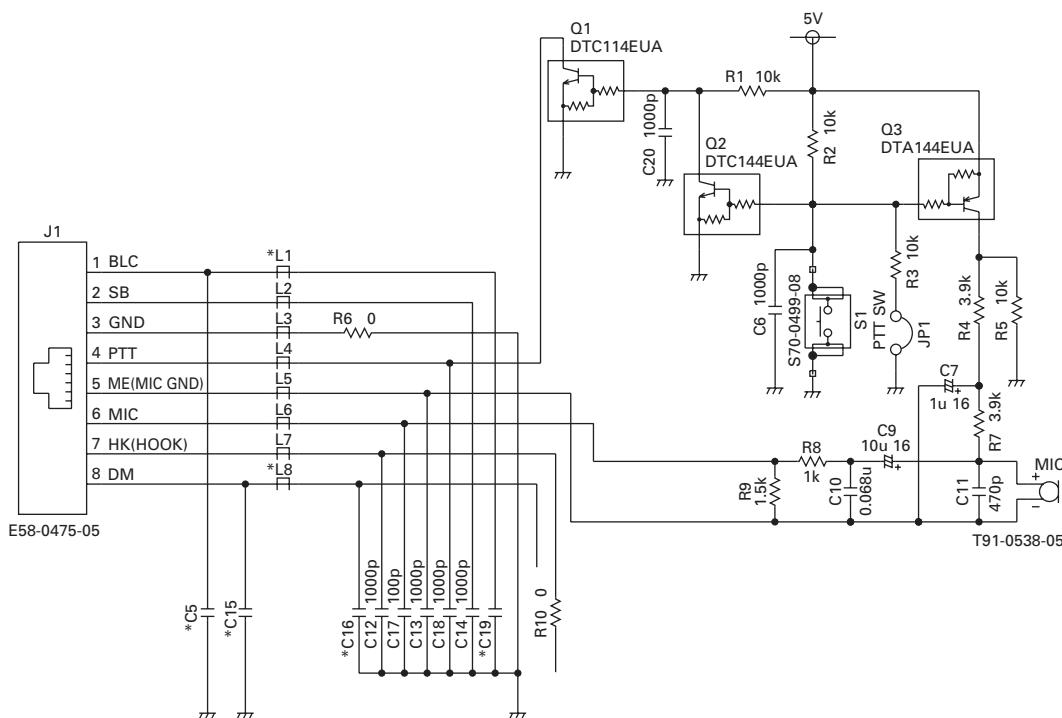
In the Normal microphone state, if the PTT switch on one of the microphones is pressed, modulation signals are sent from all microphones.

## ■ Circuit description

Hot microphone operation can be performed by cutting the jumper (JP1).

If the jumper is not cut (Normal microphone state), bias voltage is always applied to the microphone element (Q3 is always ON) and if the microphone mute of the transceiver to which the KMC-35/36 is connected is released, modulation signals can be sent even when the microphone PTT switch is not pressed.

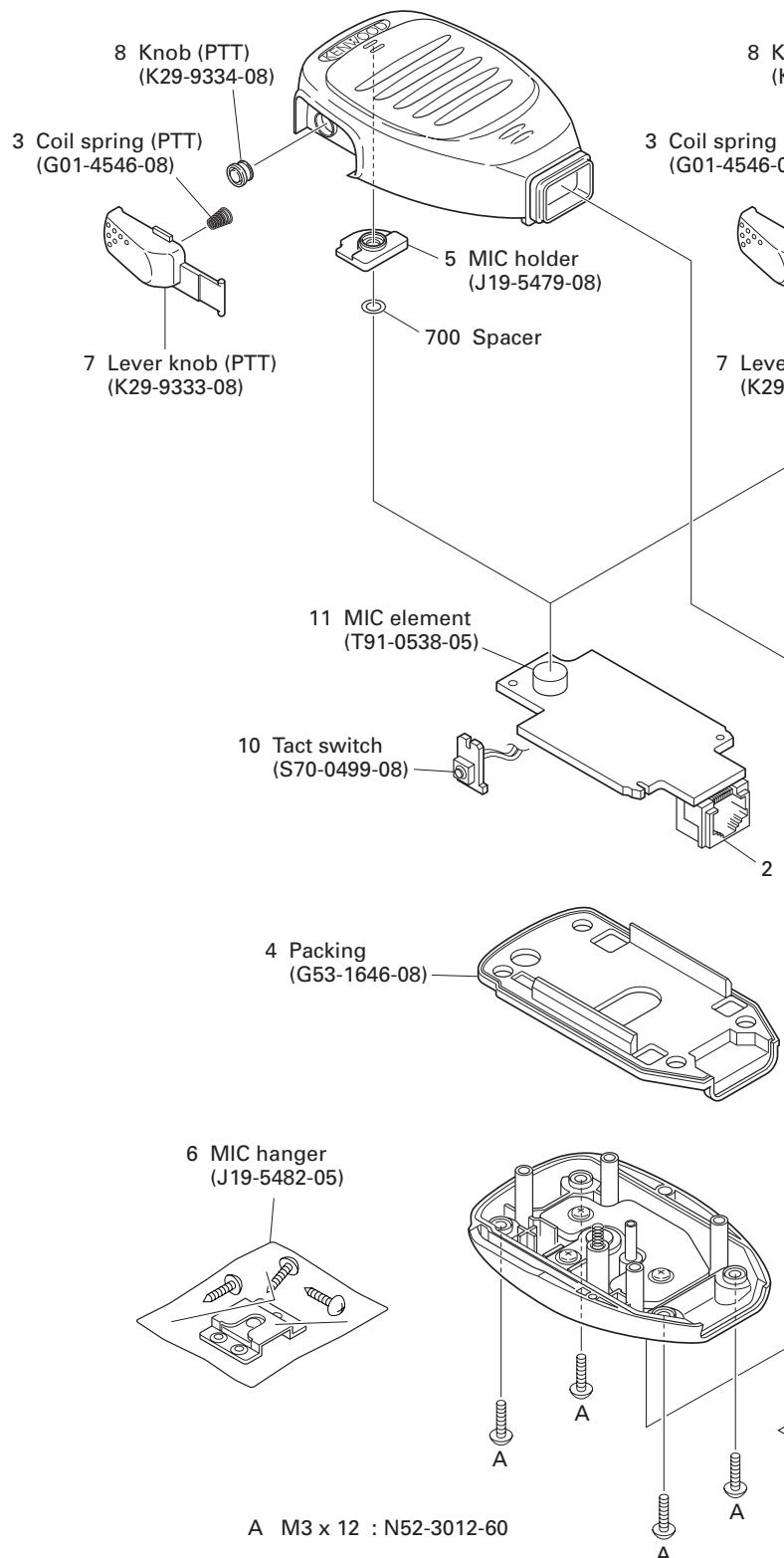
If the jumper is cut (Hot microphone state), bias voltage is applied to the microphone element only when the PTT switch is pressed (Q3 turns ON only when the PTT SW is pressed), and modulation signals cannot be sent when the microphone PTT switch is not pressed.



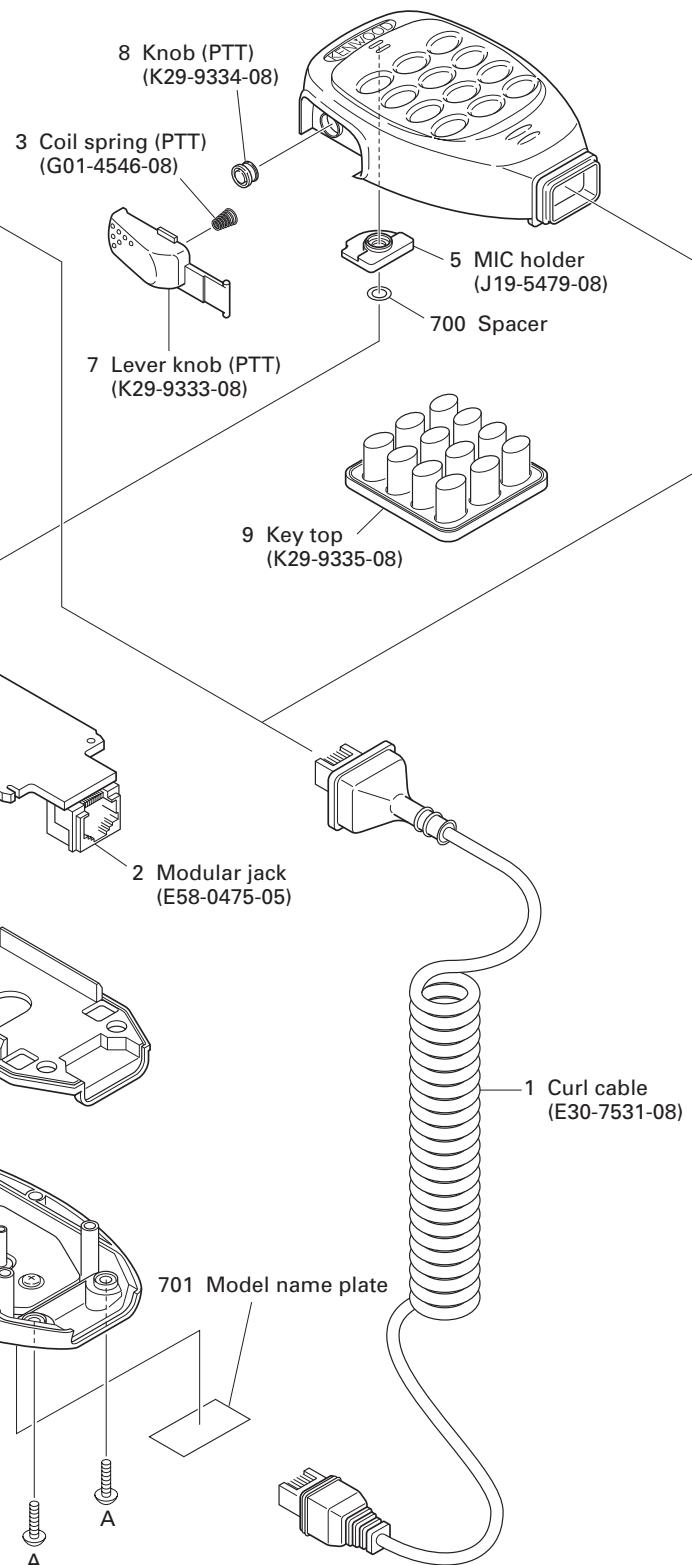
# KMC-35/36

## EXPLODED VIEW

**KMC-35**



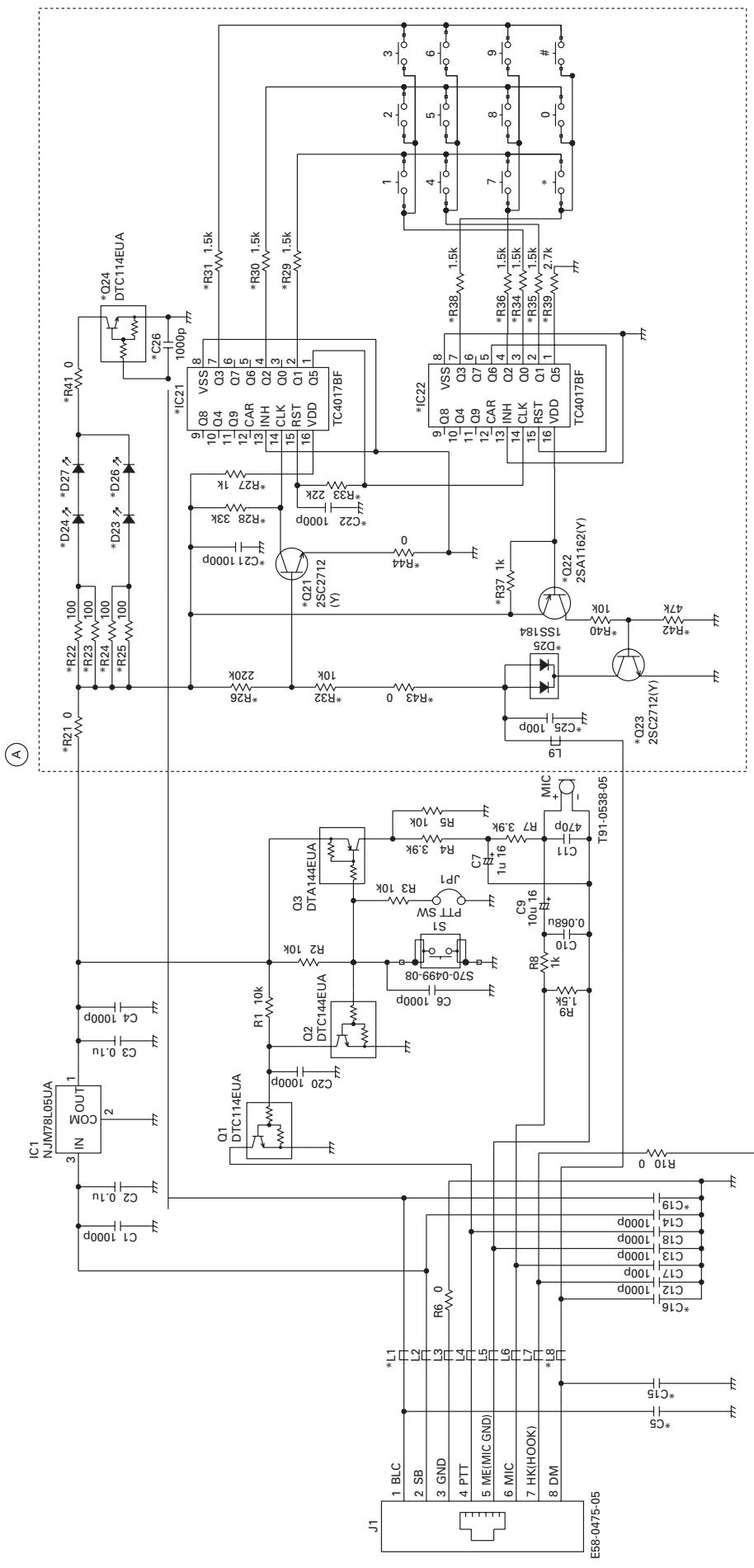
**KMC-36**



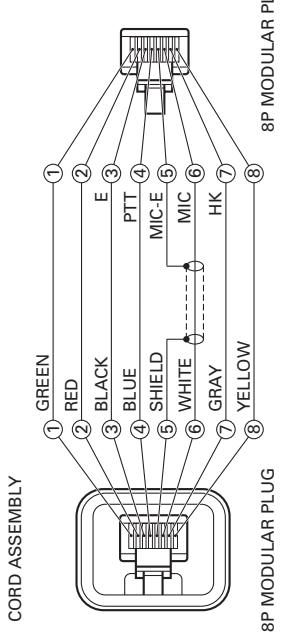
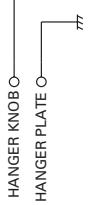
Parts with the exploded numbers larger than 700 are not supplied.

## SCHEMATIC DIAGRAM

# KMC-35/36



	L <sub>1</sub>	L <sub>8</sub>	C <sub>5</sub>	C <sub>15</sub>	C <sub>16</sub>	C <sub>19</sub>	(A)
KMC-35	NO	NO	1000p	10000p	NO	NO	NO
KMC-36	L92-0444-05	L92-0444-05	NO	NO	NO	1000p	YES



# KMC-35/36

## SPECIFICATIONS

Voltage Required .....	13.6V±15%
Operating Temperature Range .....	-30°C~+60°C
Microphone Sensitivity .....	-46dB±6dB at 1kHz (0dB=1V/Pa)
Impedance .....	1kΩ±30% at 1kHz
Current Drain .....	Less than 20mA (KMC-35) Less than 100mA (KMC-36)

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